Operator's Manual

THANK YOU FOR BUYING A SNAPPER PRODUCT!

We have designed and built this machine with utmost care, and it is intended to give you long and satisfactory service.

Any mechanical device can be potentially dangerous if not used properly. No accident prevention program can be successful without the wholehearted cooperation of the person who is directly responsible for the operation of the equipment. Study this operator's manual to learn the operation of the controls and observe all safety precautions. Only use this machine for the purpose it is intended. By following these instructions and safety precautions you should enjoy the long and trouble free operation you expect.

Snapper Comet Riding Mower

MODELS 2650 - 2650\$ - 2680 - 2680\$ 3080 - 3080\$

SNAPPER MOWER GUARANTEE

All Snapper Mowers are guaranteed for normal use to the original purchaser against defective workmanship and material. This guarantee extends for one year from purchase date on mowers not used commercially, and for one month on mowers that are used commercially.

We will replace or repair without charge any port or parts returned to us during the guarontee period, with transportation charges prepaid, that our inspection shows to have been defective in workmanship or material when shipped from the factory.

This guorontee is void if the ports in question have been altered or damaged by accident, abuse, neglect, improper odjustment, lack of lubrication or normal wear. This guarantee does not cover engines, tires, tubes, batteries and belts which are guaranteed separately by their manufacturers.

No ather guarantee, expressed or implied, is made by the Company which retains the right to change specifications without notice or obligation.

WARNING: Use of replocement ports other than genuine Snapper parts may impoir the safety of your mower and moy void our worranty.

IMPORTANT: This guarantee is void unless the guarantee card attoched is filled out completely and mailed to the Factory within 10 days of the date mower was purchosed.

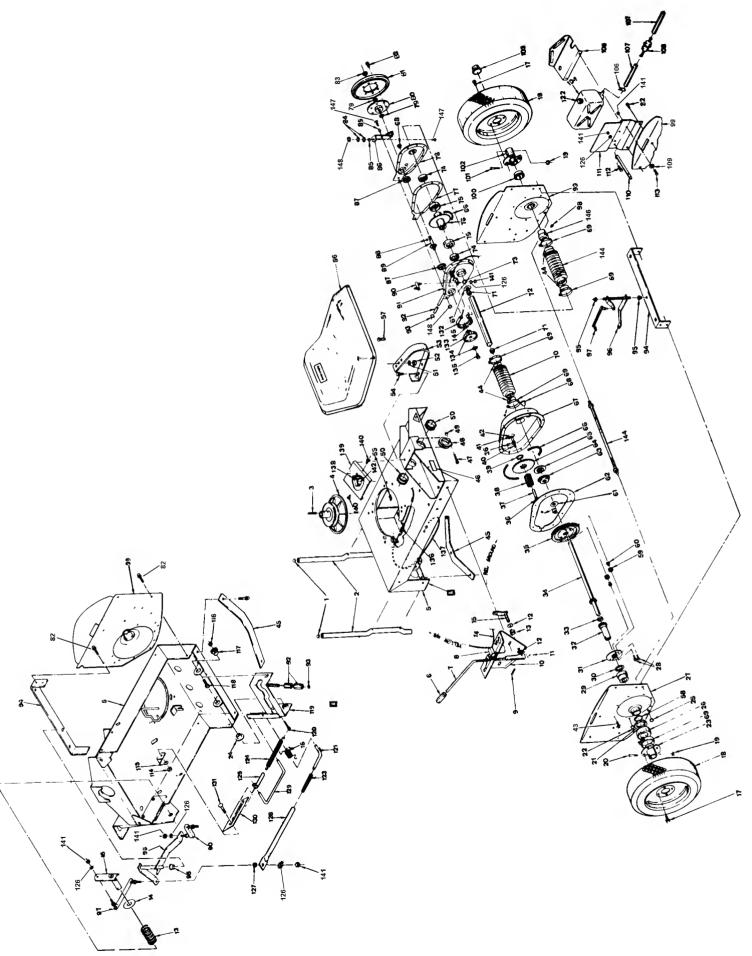
IT IS THE POLICY OF McDONOUGH POWER EQUIPMENT, INC. TO IMPROVE ITS PRODUCTS WHENEVER IT IS POSSIBLE AND PRACTICAL TO DO SO. WE RESERVE THE RIGHT TO MAKE CHANGES OR ADD IMPROVEMENTS AT ANY TIME WITHOUT INCURRING ANY OBLIGATION TO MAKE SUCH CHANGES ON PRODUCTS MANUFACTURED PREVIOUSLY.

McDONOUGH POWER EQUIPMENT, INC.

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McDONOUGH, GA., U. S. A., 30253

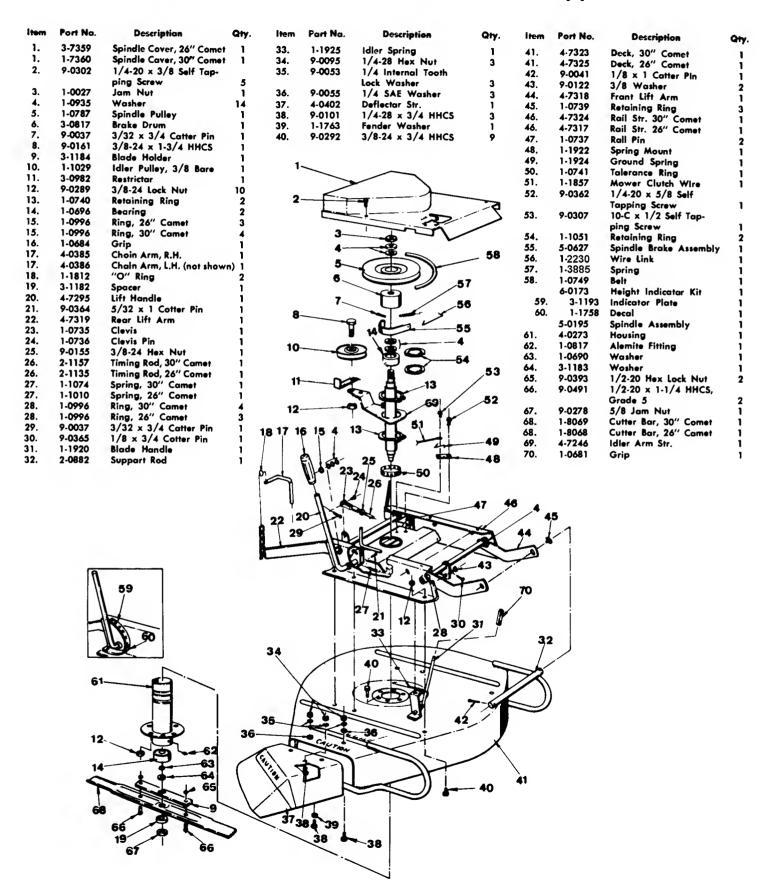
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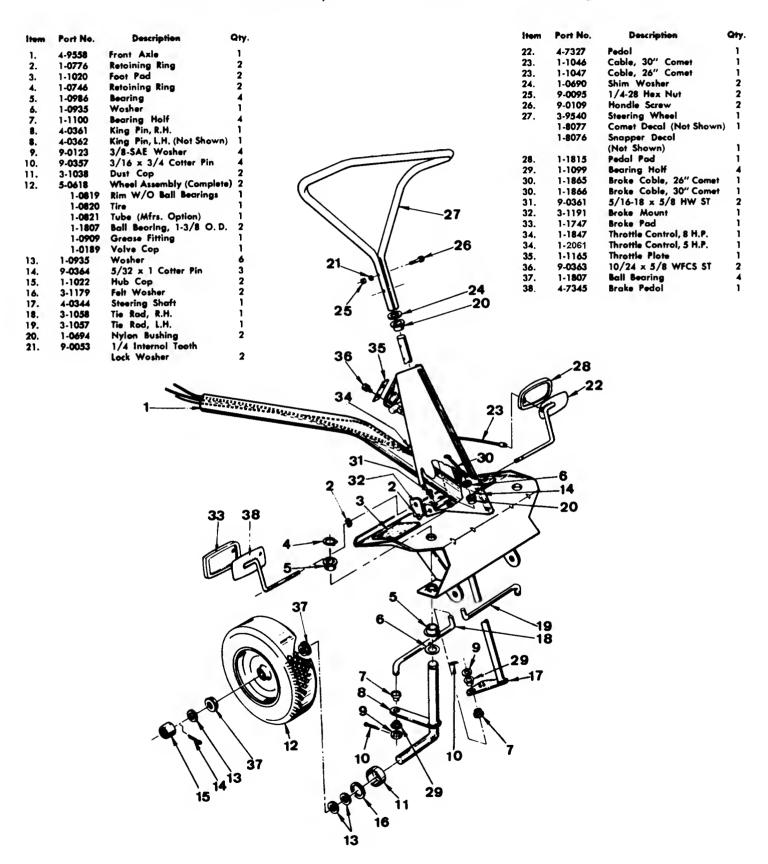
Rear Wheels, Transmission and Variable Speed Drive

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Description	30MD (:: 10 21/ 3	5/10-24 X 1 AMCS 5/16-24 X 5/8 Hex Head Can Serew	3/10-24 X 3/0 NeX medd Cup Scient	3/8-10 nex Nut	3/8 Lock Wosher	2/10-18 Hex NUT	5/14/19 v 1 Calf Topping Serem	2/ 10:10 × 1 3ell 10ppillg 30:em	3/16 x 3/4 Catter Pin	Rod	Gas Cap	Spring	Spring	Clutch Clevis	5/16 SLW	Koller	100e	Rod Guide	3/8-16 x 3/4 Carriage Bolt	Auxiliary Brake Band	Brake Drum	Belleville Washer	3/8-24 × 1/2 HHCS	Brake Spring	Brake Cable Mousing	Manual Start Switch	Electric Start Switch	1/4 20 × 3/9 DWCT	1/4-20 × 3/0 HW3-	JA 10-24 nex 1401	Interfact Tecimosh Engine	Boot	Tie Rod	Belleville Washer	Bearing, LH Fender (w/fitting)	1/4"-28x3/4" HHCS	1/4"-28 HN	7 4000 1 0000	Hems Not Shown on 2030 and 2000 recumber Engines	Dipon wife	Items Not Shown on 26505 and 26805 Tecumseh Engines	Ground Wire	Fuse Wire	wn on 2680 and 3080 Briggs Engines	Ground Wire	Lack	5/4 Street Ell	Not Shown on 26805 and 30805 Briggs Engines	Graund Wire	Fose Wire	19CK	3/4 Street Ell		Not Shown on All Electric Starters	Positive Wire	Negative Wire	Storter Wire	Battery Clamp
Port No.	0000	9-0230	7-0227	20.00	9-01-8	2.0.49	0.0240	4.7247	9.0357	3.1729	1.1775	1.1820	1.1041	1.1090	9-0187	1.1908	2-1/06	3.1080	9-0136	5.0628	3.1748	1,1121	9.0493	1.1867	1-1855	1.1853	1.1133	3-/344	9-0302	1.1868	0001-1	1.0992	1.1070	1.1121	50918	90101	90303		115 NOT 311	0	ns Not Sha	1.1148	1.1864	Hems Nat Shown	1.1860	1.0267	67/1-7		1.1860	1.1862	1.0207	1.1863		Items Not Sh	1.1858	1.1859	1.184	3.7343
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Description		7/16 Lack Washer	7/16-14 Hex Nut	Seat Spring	3/8-16 x 1 Hex Head ST. Screw	Washer (Tecumseh Engine)	Seat	7/16-14 x 1 Carriage Balt	Clamp King	Pinion Spacer	Flance Washer	Gosket	Sprocket	Washer	Spracket	Chain	Case	Plastic Plug	Boot Clone	1000	Orive Tube	No Washer	Needle Seoring	Nylon Thrust Washer	Hub and Sorocket Str.	Gasket	Caver, Left Hand	Belleville Washer	Hob	Driven Disc	5/16-18 × 5/8 HWST	5/8-18 Hex Lock Nut	Washer	Spirit Spacer	Secring	Woodruff Key	Sprocket and Shaft	Shift Link, Shart	Cover, Right Hond	Koller	Ketaining King	Notes Begging	Shift Arm	Shift Link, Lang	Grease Fitting	Fender, Left Hand	Seal Cap, Left Hand	Axle Bait, Lett Hand		Aub Cop	Front Brocket	Hose Clamp		Filter	Washer	Tank Brace, 2650, 26505, 2680, 3080	Tank Brace, 26805, 30805	Bracket, Back
on tro		9.0247	9-0449	3.0844	9-0324	3.1087	1.1967	9.0248	1-8082	2.1126	1.1072	1-8060	1.0959	1.0988	2.1129	1-0941	3-7279	1-1024		- 101-1	1.0780	1.1071	1.0942	1.1086	4.0355	1-8059	3.7278	1.1121	2.0911	1.0765	9.0361	9.0356	2.0984	0.40	1.0754	1-0614	1.0940	1.1018	4.7313	2.0908	1.0776	1.1014	4.0340	1.1017	1.0909	3.7285	1.0967	1.1035	4.0350	1.050	2 0562	1.1137	3.1726	1.1777	3.0008	3.1138	3.1180	3.9552
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200	Description	Cap	Bumper	-	Drive Disc Assembly	Main Case	Grip	Shift Handle	Neutral Switch	Clevis Pin	Shirt Desent	3/32 x 3/4 Coner rill	Caring	Mower Clutch Wire	Shift Handle Arm		Lug Bolt	nd Tire Assembly, 2650,				Tube							Wheel 8alt, R.H. Axle 8alt	Oil Seal	5/16 Flange Lack Nut	Right Hand Wheel Hub	Thrust Washer	5/16.24 Lock Nut	Seal Cap, R.H.	Fender, K.M.	(He one time only. Replace if	disassembled)	Bearing	Thrust Washer	Differential Plate	Short Axle Assembly	Spacer Spacer	A31 10P Gear	5/16 Belleville Washer 2	Spacer	Gear, 111, 10P	Retaining Ring	Idler Bolt	5/16 "O" Ring 2	3/ to internal loath Lack Washer	1/4:20 x 5/8 Self lapping Screw	Section 1997	Name Plate	5/16-24 x 2-1/2 Hex Head Cap Screw 1	Tube Clamp	5/16-24 Flange Lack Nut	Grammet
;	Por No.	1.0153	3.0798	1.0210	5.0169	4.9556	1.0838	4.0284	1.1854	1.1021	4-0332	2003	3-1030	1.1857	4.0341	1.1821	9-0367	5.0116		1.0533	1.0524	1.0525	1.0183	1004	1-1097	1.1153	1.0189	1.1201	1.1013	1.1817	1.0969	4.0351	1.0925	9.0222	3.1732	3.7280	4-0334		1-0966	3.1079	3.1104	5.0278	1.1026	2.1158	1.1782	2.1128	1.0964	1-0965	1.1042	1.1156	9.0395	9.0362	3.1043	1.0808	9.0358	3.1100	9.0480	1.1033
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Spindle, Cutter Unit and Lift, 26", 30" Snapper Comet



Front Wheels, Front End and Steering



Assembly, Operation, Service Manual and Parts List SNAPPER COMET 26" & 30"

1. ASSEMBLY:

- A. Install steering wheel. (Page 7, Item Na. 27).
- B. Install grass deflectar (Page 6, Item Na. 37) ar grass catcher kit.
- C. Cannect right hand steering link (Page 7, Item Na. 18).
- D. Install seot (Page 4, Item Na. 56) to mower using one 7/16-14 x 1 corriage bolt, one 7/16 lock washer, and one 7/16-14 hex nut.
- E. Check engine manual far engine ail and gasaline recammendations.
- F. Check tire pressure—frant 20 lbs.; reor 25 lbs.

G. If electric start:

- Service battery according to instructions supplied with the battery.
- Place bottery under seat with terminals nearest the front of the machine.
- 3. Cannect wires to battery terminals with negative side ta graund.

2. OPERATIONS:

A. STARTING ENGINE:

- Read entire operator's monual, the engine manual, and become familiar with all contrals before starting engine.
- 2. Shift transmission to "neutral-park" position.
- 3. Shift cutter to "out" position.
- 4. Turn key switch to "an" position.
- 5. Start engine per engine monuol.

B. FORWARD MOTION:

- Depress clutch and brake pedals, move shift lever to speed Na. 1 and slawly release clutch and brake pedals. Speed may now be varied without using the clutch.
- 2. Always use the clutch ta shift out of neutral.
- 3. Always begin farward motion in speed No. 1.

C. REVERSE MOTION:

 Some os forword motian except shift lever must he held in reverse.

D. ROLL:

 Shift the transmission to roll when the machine is to be moved without the use of the engine.

E. STOPS:

- The machine may be stapped by depressing clutch pedal and then broke pedal in that order.
- 2. Vary the speed of the machine with the shift lever, not with the broke.
- The engine may be stapped by turning the key switch to the "aff" pasition or maving the throttle control to the "stop" position.
- As a sofety precoution, if stops must be made going up steep inclines, shift cutter to out position and back slowly dawn to level ground before restarting.

F. CUTTER UNIT:

- Cutting height is changed by maving the lift handle. (Page 6, Item Na. 20). There are 8 different pasitions, ranging between 1 and 4 inches.
- 2. Cutting height moy be changed at any time.
- 3. To engage cutter unit, slawly mave the cutter handle from the "aut" pasition to the "in" position.
- 4. Cutter con be engoged or disengoged ot ony time.

3. ADJUSTMENTS:

A. CLUTCH:

The clutch linkage has been designed so that with inital factory adjustment, the driven disc weor is occammodated thraughout its useful life. Replace disc when worn to 1/32-1/16 inch rubber thickness. Do not tamper with linkage if mower does not pull of this paint. Replace driven disc.

In the event sameane tampers with the factory adjustment, the linkage can be checked os fallows:

- Remave driven disc and install adjusting gauge, which can be made fram a driven disc with the "as new" radius of 3 inches an half the circumference and a 2³/₄ inch radius ground an the ather half.
- 2. Depress clutch pedal and shift to second speed.
- 3. Adjust clutch rod guide until the $2\frac{3}{4}$ inch radius clears driving disc .005/.010 inch.
- 4. Rotate gauge 180 deg. and fully depress clutch pedal until brakes ore applied. Check ta see that the 3 inch radius clears driven disc by 1/32 inch minimum with sliding choin case pushed lightly against yake lift. This assures that driven disc will be pulled down fram driving disc when clutch is disengaged.

B. CLUTCH AND BRAKE PEDALS:

Cantral cables shauld have slight amount af slack with clutch and brake pedals released and with shift handle in neutral. This can be checked by seeing that the clutch rad slides to the rear end af slat in the clutch rad guide. Adjust by shifting cable stops as required through keyhale in brake ond clutch pedal.

C. CUTTER DRIVE BELT:

The spring looded idler mointains praper belt tension thraughaut the effective belt life.

Adjust moin tube when idler pulley causes the belt to rub together behind the spindle pulley. Main tube adjustment is accomplished as follows:

- Laasen clamp under seat spring and pull main tube forward until inside surface of cutter drive belt has appraximately 1" running clearance measured at the idler pulley with cutter unit engaged.
- Check to see if cantral cable has a slight omount of slock with clutch and brake pedal released and with shift handle in neutral discussed in "D" abave.

Belt replacement is accamplished as fallows:

- 1. Remave spindle guard caver and remave belt fram pulley.
- Stand mawer an end (refer ta "Starage") with shift handle in neutrol.
- Pull belt fram behind drive disc. Reach behind slide and pull clutch rod for moximum disc cleoronce. Roll belt between drive ond driven discs. Pull belt between driven disc ond belt guide and remave from transmission case.
- 4. Reverse pracedure ta install new belt.

D. CUTTER SPINDLE REMOVAL.

If it is necessary to remove and re-assemble spindle housing, the housing must be plumbed to the cutter deck to obtain an equal distance between the blade tip and deck. This is accomplished by locating the housing flange correctly to the deck, using the clearonce holes for the capscrews for olignment. Tighten securely using self-locking nuts.

E. DECK ADJUSTMENT:

The cutter blade has been factory adjusted for 1 inch minimum cutting height. After a period of time, wear in the linkage may require re-adjustment. Correct procedure is as follows — taking oll measurements to the same blade tip:

- 1. Park mower on level ond even floor or surface.
- 2. Move lift handle to lowest position to remove spindle cover.
- Adjust blade tip cutting edge to 15% inch at rear by bending the swinging chain arms of the rear suspension up or down as required, maintaining a level blade side to side as this is adjusted.
- 4. Swing blode tip to front ond odjust to 1 inch by odjusting timing link that connects the front and rear lift arms. Shortening this link $\frac{1}{2}$ turn of the rod end roises front end approximately $\frac{1}{8}$ inch.
- 5. Turn blade to point to the front and rear of machine. The 26" and 30" blade should be at least $\frac{1}{2}$ " higher at rear than the front.

4. STORAGE:

The mower may be set on end for servicing ar storage within the following limitations.

- A. For electric starter units, remove battery to prevent acid leakage and subsequent damage.
- B. Gas tank must be proctically empty to eliminate fire hazard.
- C. For winter storage, always droin oil and gosoline. Refer to engine monual for proper procedure to follow.

5. OPTIONAL EQUIPMENT:

To increase the usefulness of your Snopper Comet Mower, the following kits may be obtained as Optional Equipment:

6-0049	Tire Choins, 16 x 4.80 — 8 Tires
6-0119	Tire Choins, 16 x 6.50 - 8 Tires
6-0111	Leaf Mulcher, 26"
6-0118	Leaf Mulcher, 30"
6-0185	Snow Plow Kit
6-0183	Gross Cotcher Kit
6-0169	Steering Wheel Kit
6-0170	Wheel Brake Kit

SAFETY PRECAUTIONS

Remember, a careful operator is always the best insurance against an accident.

Study your Operator's Manual, become familiar with the controls and how the mower operates. Learn to stop the mower quickly.

Never attempt to start machine unless shift handle is in neutral and cutter is in the out position.

Always begin forward motion with shift handle in the No. 1 speed position.

Before operating mower clear area of debris.

Operate the engine at the slowest speed that will cut satisfactorily.

Stop and check for breakage and repair any damage after striking foreign objects.

Mount mower from left hand side, opposite the discharge chute.

Keep hands and feet clear of the cutter unit at all times.

Do not operate mower with guards removed.

Disengage cutter, shift to park-neutral and stop engine before dismounting.

Do not crank or operate engine where exhaust fumes can collect.

Never allow children to operate the Snapper Comet.

Instruct individuals to stay away from the mower while it is in operation.

Do not let others ride with you on the mower.

Do not operate the mower without either the grass deflector or the entire grass catcher attachment in place.

The grass bag, if used, should be frequently checked for wear and deterioration. Replace with Snapper brand bags only, when deterioration or wear requires.

When mowing, never discharge clippings toward windows and doorways.

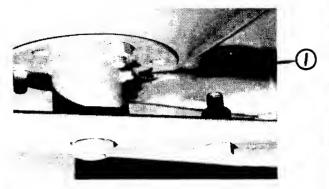
Mow only in daylight or in good artificial light.

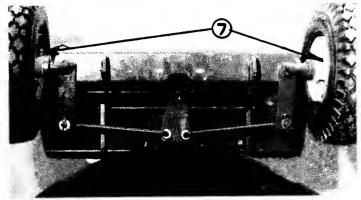
Be extra careful when working on hillsides or rough ground. Watch out for holes or ditches into which a wheel may drop and cause the mower to overturn. If it is necessary to stop when going up steep inclines, shift cutter to out position and back slowly down to level ground before restarting.

When going down inclines, keep in low speed with clutch pedal out to allow engine to control speed.

Fill gas tank outdodors, but never while engine is running or hot. Avoid spilling. Always use an approved gasoline can.

Wait for all movement to stop before servicing machine.

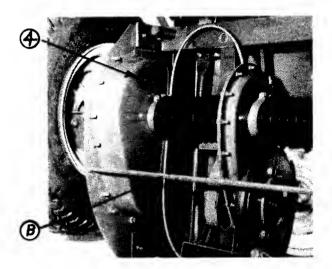






LUBRICATION INSTRUCTIONS

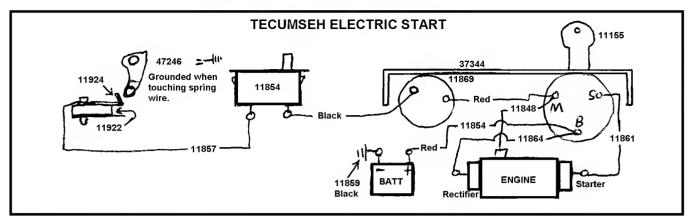
FOR SNAPPER COMET 26" & 30"

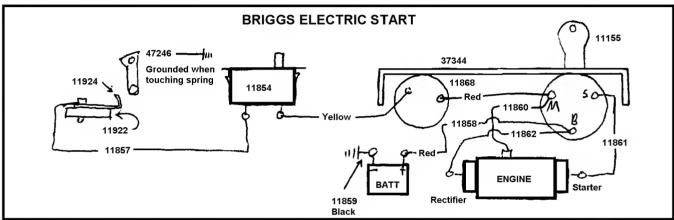


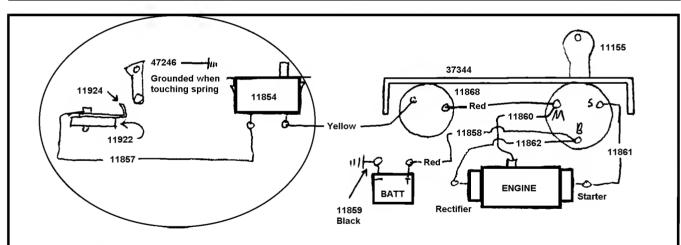
- 1. The spindle is assembled with sealed precision ball bearings that require infrequent lubrication. More than two shots of grease a year from a pressure gun may damage bearing seals.
- 2. Height adjusting cams are lubricated with medium cup grease after removing spindle cover. Twice a year is sufficient.
- 3. Lubricate idler arm twice a year with a few drops of SAE 30 oil.
- 4. The differential is factory lubricated with 14 ounces of Snapper 00 grease. Once a year stand machine on end and remove plug "B". Add Snapper 00 grease, if necessary, to bring lubricant level to bottom of hole "B".
- 5. The sliding chain case is factory lubricated with 2 ounces of Snapper 00 grease. Remove plug and add 1 ounce of grease each year.
- 6. Lubricate shift lever with 2 shots of grease from a pressure gun twice a year.
- 7. The front wheel and axle bearings take 2 shots of grease from a pressure gun every 10 hours of operation.
- 8. The engine should be serviced according to the engine manual supplied with this machine.
- 9. Remove excessive amounts of grease, oil, dirt and grass

regularly for added machine life. NOTE: Snapper 00 grease, Part No. 1-1050, is specially compounded for this application and is available from your Snapper dealer.

3080S WIRING DIAGRAM







NOTE: Many parts are not available to repair this interlock system. Updating may require using modual kit #63064 for B&S engines, #63066 for Tecumseh engines, deck wiring harness #18912, deck switch #18524, switch shield #31859, detent switch #15707, and shift detent #40546. Changing the shift detent allows use of the newer button type switch. In the circled area above, modification may require replacing #11922 with the new type deck switch on the cross brace in a position that allows proper activation from contact with the switch shield (or a bent a nail welded to the idler arm if the shield isn't available) when the blade is disengaged.

SNAPPER POWER EQUIPMENT McDonough, GA • 30253

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